

**EAST Search History**

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	13	( "3981486"   "4789910"   "4807073"   "5048175"   "5122916"   "5483392"   "5771568"   "5772797"   "5820980"   "5898548"   "5923502"   "6034847"   "RE29326" ).PN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/03/13 17:53
L2	24	( "3813692"   "3814863"   "4024489"   "4354212"   "4423451"   "4523243"   "4642716" ).PN. OR ( "4807073" ).URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/03/13 17:53
L3	375667	(alumina or (al with o with L2) or aluminum adj2 oxide)	US-PGPUB; USPAT; USOCR	OR	ON	2009/03/13 17:53
L4	375667	(alumina or (al with o with L2 with L3) or aluminum adj2 oxide)	US-PGPUB; USPAT; USOCR	OR	ON	2009/03/13 17:53
L5	518930	(si with o with L2) or silicon adj2 dioxide or dielectric	US-PGPUB; USPAT; USOCR	OR	ON	2009/03/13 17:53
L6	44278	L4 same L5	US-PGPUB; USPAT; USOCR	OR	ON	2009/03/13 17:53
L7	4739073	pad or contacts or lead or stud	US-PGPUB; USPAT; USOCR	OR	ON	2009/03/13 17:53
L8	8494	L6 same L7	US-PGPUB; USPAT; USOCR	OR	ON	2009/03/13 17:53
L9	257	L8 and "360".clas.	US-PGPUB; USPAT; USOCR	OR	ON	2009/03/13 17:53
L10	3	( "2003/0165034" ).URPN.	USPAT	OR	ON	2009/03/13 17:53
L11	34	( "20020006018"   "20030151858"   "20030153103"   "20030165034"   "4853810"   "5283942"   "5303105"   "5377058"   "5452164"   "5636088"   "5640753"   "5663856"   "5710683"   "5771570"   "5793207"   "5896243"   "5896244"   "5898542"   "5909340"   "5949627"   "5991113"   "6074566"   "6078455"   "6154952"   "6212040"   "6252741"   "6366428"   "6441994" ).PN. OR ( "6813118" ).URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/03/13 17:53

L12	59	("5079035"   "5268806"   "5285339"   "5325253"   "5341118").PN, OR ("5434826").URPN.	US_PGPUB; USPAT; USOCR	OR	ON	2009/03/13 17:53
L13	178598	(alumina or (al with o with L2 with L3) or aluminum adj2 oxide)	JPO; DERWENT; IBM_TDB	OR	ON	2009/03/13 17:53
L14	2493449	pad or contacts or lead or stud	JPO; DERWENT; IBM_TDB	OR	ON	2009/03/13 17:53
L15	305353	(si with o with L2) or silicon adj2 dioxide or dielectric	JPO; DERWENT; IBM_TDB	OR	ON	2009/03/13 17:53
L16	1356	L13 same L14 same L15	JPO; DERWENT; IBM_TDB	OR	ON	2009/03/13 17:53
L17	1193193	transducer\$1 or head\$1 or slider\$1	JPO; DERWENT; IBM_TDB	OR	ON	2009/03/13 17:53
L18	51	L16 and L17	JPO; DERWENT; IBM_TDB	OR	ON	2009/03/13 17:53
L19	2493449	pad or contact or lead or stud	JPO; DERWENT; IBM_TDB	OR	ON	2009/03/13 17:53
L20	3266	L13 and L19 and L15	JPO; DERWENT; IBM_TDB	OR	ON	2009/03/13 17:53
L21	1910	L20 not L16	JPO; DERWENT; IBM_TDB	OR	ON	2009/03/13 17:53
L22	107	L17 and L21	JPO; DERWENT; IBM_TDB	OR	ON	2009/03/13 17:53
L23	115	alumina adj2 undercoat	US_PGPUB; USPAT; USOCR	OR	ON	2009/03/13 17:53
L24	1231	stud and "360".clas.	US_PGPUB; USPAT; USOCR	OR	ON	2009/03/13 17:53
L25	1	contact adj pad same undercoat same dielectric	US_PGPUB; USPAT; USOCR	OR	ON	2009/03/13 17:53
L26	0	contact adj pad same undercoat same dielectric	EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/03/13 17:53
L27	1	pad same undercoat same dielectric	EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/03/13 17:53
L28	2	lead same undercoat same dielectric	EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/03/13 17:53
L29	47543	lead same insulat\$4	EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/03/13 17:53

L30	24	("3813692"   "3814863"   "4024489"   "4354212"   "4423451"   "4523243"   "4642716").PN. OR ("4807073").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/03/13 17:53
L31	375667	(alumina or (al with o with L30) or aluminum adj2 oxide)	US-PGPUB; USPAT; USOCR	OR	ON	2009/03/13 17:53
L32	709205	(pad or contact or lead or stud) same ((si with o with L30) or silicon adj2 dioxide or dielectric or alumina or (al with o with L30 with L31) or aluminum adj2 oxide or insulat\$4)	US-PGPUB; USPAT; USOCR	OR	ON	2009/03/13 17:53
L33	159787	(transducer\$1 or head\$1 or slider\$1) and L32	US-PGPUB; USPAT; USOCR; EPO	OR	ON	2009/03/13 17:53
L34	163859	(pad or contact or lead or stud) same ((si with o with L30) or silicon adj2 dioxide or dielectric or alumina or (al with o with L30 with L31) or aluminum adj2 oxide or insulat\$4) same dielectric	US-PGPUB; USPAT; USOCR	OR	ON	2009/03/13 17:53
L35	1904986	(transducer\$1 or head\$1 or slider\$1)	US-PGPUB; USPAT; USOCR	OR	ON	2009/03/13 17:53
L36	27874	L34 and L35	US-PGPUB; USPAT; USOCR	OR	ON	2009/03/13 17:53
L37	278921	(pad or contact or lead or stud) same ((si with o with L30) or silicon adj2 dioxide or dielectric or alumina or (al with o with L30 with L31) or aluminum adj2 oxide or insulat\$4 or dielectric) same (undercoat or under adj2 coat or layer)	US-PGPUB; USPAT; USOCR	OR	ON	2009/03/13 17:53
L38	60455	"360".clas.	US-PGPUB; USPAT; USOCR	OR	ON	2009/03/13 17:53
L39	5146	L37 and L38	US-PGPUB; USPAT; USOCR	OR	ON	2009/03/13 17:53
L40	48608	L37 and L35	US-PGPUB; USPAT; USOCR	OR	ON	2009/03/13 17:53
L41	7291451	between or interpos\$3 or interced\$3	US-PGPUB; USPAT; USOCR	OR	ON	2009/03/13 17:53
L42	155917	L37 same L41	US-PGPUB; USPAT; USOCR	OR	ON	2009/03/13 17:53
L43	1225560	magnet\$3 or electro adj magnet\$3	US-PGPUB; USPAT; USOCR	OR	ON	2009/03/13 17:53
L44	128806	L43 with L35	US-PGPUB; USPAT; USOCR	OR	ON	2009/03/13 17:53

L45	151251	(pad or contact or lead or stud) with ((si with o with L30) or silicon adj2 dioxide or dielectric or alumina or (al with o with L30 with L31) or aluminum adj2 oxide or insulat\$4 or dielectric) with (undercoat or under adj2 coat or layer)	US PGPUB; USPAT; USOCR	OR	ON	2009/03/13 17:53
L46	0	("2002/0131217").URPN.	USPAT	OR	ON	2009/03/13 17:53
L47	3	("2001/0004797").URPN.	USPAT	OR	ON	2009/03/13 17:53
L48	293	(360/234.5).OCLS.	US PGPUB; USPAT; USOCR	OR	OFF	2009/03/13 17:53
L49	22	("4564723"   "4636900"   "4819094"   "4926007"   "4962437"   "5491597"   "5608591"   "5694272"   "5737152"   "5754369"   "5871655"   "5896249"   "5946163"   "5959808"   "5995328"   "6028748"   "6088235"   "6487047"   "6487048").PN. OR ("6839202").URPN.	US PGPUB; USPAT; USOCR	OR	ON	2009/03/13 17:53
L50	20	("5666717"   "5687479"   "5712749"   "571547"   "5737152"   "5754369"   "5796552"   "5809634"   "5812344"   "5844753"   "5854724"   "5933293"   "5978177"   "5986853"   "5995329"   "6004473"   "6028748"   "6035530").PN. OR ("6487047").URPN.	US PGPUB; USPAT; USOCR	OR	ON	2009/03/13 17:53
L51	12	("4313262"   "5750415").PN. OR ("6035530").URPN.	US PGPUB; USPAT; USOCR	OR	ON	2009/03/13 17:53
L52	12	("5516720"   "5814555"   "5837618"   "5872064"   "5882968"   "5918152"   "5953625"   "6035530").PN. OR ("6232214").URPN.	US PGPUB; USPAT; USOCR	OR	ON	2009/03/13 17:53
L53	59	("476169"   "4819094"   "4996623"   "5001583"   "5006946"   "5034091"   "5196377"   "5231756"   "5391842"   "5473488"   "5491597"   "5519552"   "5528819"   "5530604"   "5539596"   "5597496") PN. OR ("5737152").URPN.	US PGPUB; USPAT; USOCR	OR	ON	2009/03/13 17:53

L54	27	(["5001583"   "5666717"   "5680274"   "5687479"   "5712749"   "5717547"   "5737152"   "5754369"   "5796552"   "5809634"   "5812344"   "5844753"   "5854724"   "5933293"   "5955176"   "5978177"   "5982584"   "5986853"   "5995329"   "6004473"   "6028748"   "6035530"   "6146813"   "6282064"   "6326301"   "6475903"   "RE37869").PN, OR ("6731467").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/03/13 17:53
L55	10	(["3981486"   "6034847"   "5820980"   "5048175"   "4789910"   "RE29326"   "5122916"   "5772797"   "5771568"   "5483392").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/03/13 17:53
L56	48	(["4799118"   "5126907"   "5239435"   "5301079"   "5315468"   "5343422"   "5435053"   "5438747"   "5465185"   "5590008"   "5652687"   "5805391"   "5828533").PN, OR ("6034847").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/03/13 17:53
L57	349	(360/322).OCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/03/13 17:53
L58	1	("6122148").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/03/13 17:53
L59	5	(["5473486"   "5986851"].PN, OR ("6122148").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/03/13 17:53
L60	22	(["4219853"   "5184393"   "5237476"   "5301077").PN, OR ("5473486").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/03/13 17:53
L61	8	(["5270888"   "5473486"   "5781377"   "5986851"].PN, OR ("6373659").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/03/13 17:53
L62	141	(360/234.3).OCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/03/13 17:53
L63	184	(360/234.7).OCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/03/13 17:53
L64	18	(["4893203"   "5083365"].PN, OR ("5469312").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/03/13 17:53
L65	12	(["4639803"   "4796127"].PN, OR ("4893203").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/03/13 17:53

L66	15	(["4139442"   "4214946"   "4855854"   "4893203"   "5146379"   "5198934"   "5271802"   "5323283"   "5635082"   "5652687"   "5687045"   "5861103"   "5985163").PN. OR ("6623652").URPN.	US_PGPUB; USPAT; USOCR	OR	ON	2009/03/13 17:53
L67	24	(["4219853"   "4317149"   "4405960"   "4759118"   "4800454"   "4809103"   "4823205").PN. OR ("5001591").URPN.	US_PGPUB; USPAT; USOCR	OR	ON	2009/03/13 17:53
L68	8	(["4856181"   "4949209"   "5001591"   "5326429"   "5650897"   "5738931"   "6232563").PN. OR ("6476485").URPN.	US_PGPUB; USPAT; USOCR	OR	ON	2009/03/13 17:53
L69	53	(["3813693"   "3975773"   "4149205"   "4152741").PN. OR ("4317149").URPN.	US_PGPUB; USPAT; USOCR	OR	ON	2009/03/13 17:53
L70	66	(["3414971"   "3846841"   "3855625"   "3908194"   "4001890"   "4130847"   "Re29326").PN. OR ("4219853").URPN.	US_PGPUB; USPAT; USOCR	OR	ON	2009/03/13 17:53
L71	2359	bull and wawick ceramic	IBM_TDB	OR	ON	2009/03/13 17:53
L72	0	bull and wawick and ceramic	IBM_TDB	OR	ON	2009/03/13 17:53
L73	0	bull and wawick	IBM_TDB	OR	ON	2009/03/13 17:53
L74	0	bull and cermic	IBM_TDB	OR	ON	2009/03/13 17:53
L75	1	bull and ceramic	IBM_TDB	OR	ON	2009/03/13 17:53
L76	0	"1972" and L63 and L55	IBM_TDB	OR	ON	2009/03/13 17:53
L77	0	wawick and ceramic	IBM_TDB	OR	ON	2009/03/13 17:53
L78	37	ceramic and slider	IBM_TDB	OR	ON	2009/03/13 17:53
L79	7306	composite head	IBM_TDB	OR	ON	2009/03/13 17:53
L80	96	composite and head	IBM_TDB	OR	ON	2009/03/13 17:53
L81	3844	alignment sliders	IBM_TDB	OR	ON	2009/03/13 17:53
L82	39	alignment and sliders	IBM_TDB	OR	ON	2009/03/13 17:53

L83	24	("4219853"   "4317149"   "4405960"   "4759118"   "4800454"   "4809103"   "4823205").PN. OR ("5001591").URPN.	US_PGPUB; USPAT; USOCR	OR	ON	2009/03/13 17:53
L84	1	("5283491").PN.	US_PGPUB; USPAT; USOCR	OR	OFF	2009/03/13 17:53
L85	1	("5048175").PN.	US_PGPUB; USPAT; USOCR	OR	OFF	2009/03/13 17:53
L86	1	10/087332	US_PGPUB; USPAT; USOCR	OR	ON	2009/03/13 17:53
L87	528	((hard adj bake or hardbake) with photoresist	US_PGPUB; USPAT; USOCR	OR	ON	2009/03/13 17:53
L88	71	"360".clas. and L87	US_PGPUB; USPAT; USOCR	OR	ON	2009/03/13 17:53
L89	2	((hard adj bak\$3 or hardbak\$3) with photoresist) and (silicon adj dioxide or (S with O)) and (mr or DOMR or mre or magneto adj resist\$5 or magnetoresist\$5 or amr or magnetic\$4 adj resist\$5 or gmr\$1 or spin adj valve\$1 or svmr\$1 or tjmr\$1 or tmj\$1 or tmr or mram or magnetic adj memory or magnetic adj random adj access adj memory or DSV or TJM or macro adj magnetoresist\$5 or macromagnetoresist\$5 or piggyback or ((composite or combination or merged) adj4 head\$1)).ti,ab,clm.	JPO; DERWENT	OR	ON	2009/03/13 17:53
L90	9	((hard adj bak\$3 or hardbak\$3) with photoresist) and (silicon adj dioxide or (S with O))	JPO; DERWENT	OR	ON	2009/03/13 17:53
L91	621	((hard adj bak\$3 or hardbak\$3) with photoresist) and (silicon adj dioxide or (S with O))	US_PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/03/13 17:53
L92	46	((hard adj bak\$3 or hardbak\$3) with photoresist) and (silicon adj dioxide or (S with O)) and (mr or DOMR or mre or magneto adj resist\$5 or magnetoresist\$5 or amr or magnetic\$4 adj resist\$5 or gmr\$1 or spin adj valve\$1 or svmr\$1 or tjmr\$1 or tmj\$1 or tmr or mram or magnetic adj memory or magnetic adj random adj access adj memory or DSV or TJM or macro adj magnetoresist\$5	US_PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/03/13 17:53

		or macromagnetoresist\$5 or piggyback or ((composite or combination or merged) adj4 heads\$1)).ti,ab,clm.				
L93	22	((hard adj bak\$3 or hardbak\$3 or cured) with photoresist) same (silicon adj dioxide or (Si with O)) same dielectric	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/03/13 17:53
L94	1	("5966800").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/03/13 17:53
L95	3	(("5966800") or ("6122148") or ("5001591")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/03/13 17:53
L96	1	("4807073").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/03/13 19:13
L97	1	("5805390").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/03/13 19:14
L98	1	(electrical contact pad conducting stud substrate magnetic head).clm.	US-PGPUB; USPAT; USOCR	AND	ON	2009/03/13 19:34
S1	13	("3981486"   "4789910"   "4807073"   "5048175"   "5122916"   "5483392"   "5771568"   "5772797"   "5820980"   "5898548"   "5923502"   "6034847"   "RE29326").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/05/11 09:03
S2	20	{"3813692"   "3814863"   "4024489"   "4354212"   "4423451"   "4523243"   "4642716").PN. OR ("4807073").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/05/11 09:16
S3	279322	(alumina or (al with o with S2) or aluminum adj2 oxide)	US-PGPUB; USPAT; USOCR	OR	ON	2005/05/11 09:17
S4	279322	(alumina or (al with o with S2 with S3) or aluminum adj2 oxide)	US-PGPUB; USPAT; USOCR	OR	ON	2005/05/11 09:39
S5	345577	(si with o with S2) or silicon adj2 dioxide or dielectric	US-PGPUB; USPAT; USOCR	OR	ON	2005/05/11 09:58
S6	27906	S4 same S5	US-PGPUB; USPAT; USOCR	OR	ON	2005/05/11 09:18
S7	3687519	pad or contacts or lead or stud	US-PGPUB; USPAT; USOCR	OR	ON	2005/05/11 09:39
S8	5653	S6 same S7	US-PGPUB; USPAT; USOCR	OR	ON	2005/05/11 09:20
S9	154	S8 and "360".clas.	US-PGPUB; USPAT; USOCR	OR	ON	2005/05/11 09:20
S10	1	{"2003/0165034").URPN.	USPAT	OR	ON	2005/05/11 09:23

S11	28	(["20020006018"   "20030151858"   "20030153103"   "20030165034"   "4853810"   "5283942"   "5303105"   "5377058"   "5452164"   "5636088"   "5640753"   "5663856"   "5710683"   "5771570"   "5793207"   "5896243"   "5896244"   "5898542"   "5909340"   "5949627"   "5991113"   "6074566"   "6078455"   "6154952"   "6212040"   "6252741"   "6366428"   "6441994").PN. OR ("6813118").URPN.	US_PGPUB; USPAT; USOCR	OR	ON	2005/05/11 09:23
S12	49	(["5079035"   "5268806"   "5285339"   "5325253"   "5341118").PN. OR ("5434826").URPN.	US_PGPUB; USPAT; USOCR	OR	ON	2005/05/11 09:33
S13	127999	(alumina or (al with o with S2 with S3) or aluminum adj2 oxide)	JPO; DERWENT; IBM_TDB	OR	ON	2005/05/11 09:39
S14	2054271	pad or contacts or lead or stud	JPO; DERWENT; IBM_TDB	OR	ON	2005/05/11 09:59
S15	228308	(si with o with S2) or silicon adj2 dioxide or dielectric	JPO; DERWENT; IBM_TDB	OR	ON	2005/05/11 09:40
S16	449	S13 same S14 same S15	JPO; DERWENT; IBM_TDB	OR	ON	2005/05/11 09:42
S17	979540	transducer\$1 or head\$1 or slider\$1	JPO; DERWENT; IBM_TDB	OR	ON	2005/05/11 14:09
S18	25	S16 and S17	JPO; DERWENT; IBM_TDB	OR	ON	2005/05/11 09:58
S19	2054271	pad or contact or lead or stud	JPO; DERWENT; IBM_TDB	OR	ON	2005/05/11 14:06
S20	837	S13 and S19 and S15	JPO; DERWENT; IBM_TDB	OR	ON	2005/05/11 09:59
S21	388	S20 not S16	JPO; DERWENT; IBM_TDB	OR	ON	2005/05/11 10:03
S22	28	S17 and S21	JPO; DERWENT; IBM_TDB	OR	ON	2005/05/11 09:59
S23	85	alumina adj2 undercoat	US_PGPUB; USPAT; USOCR	OR	ON	2005/05/11 14:04

S24	1060	stud and "360".clas.	US_PGPUB; USPAT; USOCR	OR	ON	2005/05/11 13:49
S25	1	contact adj pad same undercoat same dielectric	US_PGPUB; USPAT; USOCR	OR	ON	2005/05/11 14:05
S26	0	contact adj pad same undercoat same dielectric	EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/05/11 14:05
S27	1	pad same undercoat same dielectric	EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/05/11 14:05
S28	2	lead same undercoat same dielectric	EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/05/11 14:06
S29	42071	lead same insulat\$4	EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/05/11 14:06
S30	20	("3813692"   "3814863"   "4024489"   "4354212"   "4423451"   "4523243"   "4642716").PN. OR ("4807073").URPN.	US_PGPUB; USPAT; USOCR	OR	ON	2005/05/11 14:08
S31	279322	(alumina or (al with o with S30) or aluminum adj2 oxide)	US_PGPUB; USPAT; USOCR	OR	ON	2005/05/11 14:08
S32	557433	(pad or contact or lead or stud) same ((si with o with S30) or silicon adj2 dioxide or dielectric or alumina or (al with o with S30 with S31) or aluminum adj2 oxide or insulat\$4)	US_PGPUB; USPAT; USOCR	OR	ON	2005/05/11 14:10
S33	128728	(transducer\$1 or head\$1 or slider\$1) and S32	US_PGPUB; USPAT; USOCR; EPO	OR	ON	2005/05/11 14:10
S34	111366	(pad or contact or lead or stud) same ((si with o with S30) or silicon adj2 dioxide or dielectric or alumina or (al with o with S30 with S31) or aluminum adj2 oxide or insulat\$4) same dielectric	US_PGPUB; USPAT; USOCR	OR	ON	2005/05/11 14:10
S35	1534066	(transducer\$1 or head\$1 or slider\$1)	US_PGPUB; USPAT; USOCR	OR	ON	2005/05/11 14:16
S36	19010	S34 and S35	US_PGPUB; USPAT; USOCR	OR	ON	2005/05/11 14:10
S37	189349	(pad or contact or lead or stud) same ((si with o with S30) or silicon adj2 dioxide or dielectric or alumina or (al with o with S30 with S31) or aluminum adj2 oxide or insulat\$4 or dielectric) same (undercoat or under adj2 coat or layer)	US_PGPUB; USPAT; USOCR	OR	ON	2005/05/11 14:16

S38	48535	"360" clas.	US-PGPUB; USPAT; USOCR	OR	ON	2005/05/11 14:11
S39	3241	S37 and S38	US-PGPUB; USPAT; USOCR	OR	ON	2005/05/11 14:11
S40	32737	S37 and S35	US-PGPUB; USPAT; USOCR	OR	ON	2005/05/11 14:12
S41	5626296	between or interpos\$3 or interced\$3	US-PGPUB; USPAT; USOCR	OR	ON	2005/05/11 14:13
S42	110425	S37 same S41	US-PGPUB; USPAT; USOCR	OR	ON	2005/05/11 14:13
S43	6240072	between or interpos\$3 or interced\$3 or on or above or below	US-PGPUB; USPAT; USOCR	OR	ON	2005/05/11 14:13
S44	131850	S43 same S37	US-PGPUB; USPAT; USOCR	OR	ON	2005/05/11 14:14
S45	22773	S35 and S44	US-PGPUB; USPAT; USOCR	OR	ON	2005/05/11 14:15
S46	837619	magnet\$3 or electro adj magnet\$3	US-PGPUB; USPAT; USOCR	OR	ON	2005/05/11 14:15
S47	96948	S46 with S35	US-PGPUB; USPAT; USOCR	OR	ON	2005/05/11 14:16
S48	3915	S44 and S47	US-PGPUB; USPAT; USOCR	OR	ON	2005/05/11 14:16
S49	94632	(pad or contact or lead or stud) with ((si with o with S30) or silicon adj2 dioxide or dielectric or alumina or (al with o with S30 with S31) or aluminum adj2 oxide or insulat\$4 or dielectric) with (undercoat or under adj2 coat or layer)	US-PGPUB; USPAT; USOCR	OR	ON	2005/05/11 14:17
S50	35241	S49 with S43	US-PGPUB; USPAT; USOCR	OR	ON	2005/05/11 14:17
S51	1240	S47 and S50	US-PGPUB; USPAT; USOCR	OR	ON	2005/05/11 14:18
S52	0	("2002/0131217").URPN.	USPAT	OR	ON	2005/05/11 14:25
S53	0	("2001/0004797").URPN.	USPAT	OR	ON	2005/05/11 14:36
S54	177	(360/234.5).OCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/05/11 14:36

S55	19	({"4564723"   "4636900"   "4819094"   "4926007"   "4962437"   "5491597"   "5608591"   "5694272"   "5737152"   "5754369"   "5871655"   "5896249"   "5946163"   "5959808"   "5995328"   "6028748"   "6088235"   "6487047"   "6487048").PN, OR ("6839202").URPN.	US_PGPUB; USPAT; USOCR	OR	ON	2005/05/11 16:02
S56	19	({"5666717"   "5687479"   "5712749"   "5717547"   "5737152"   "5754369"   "5796552"   "5809634"   "5812344"   "5844753"   "5854724"   "5933293"   "5978177"   "5986853"   "5995329"   "6004473"   "6028748"   "6035530").PN, OR ("6487047").URPN.	US_PGPUB; USPAT; USOCR	OR	ON	2005/05/11 16:03
S57	11	("4313262"   "5750415").PN, OR ("6035530").URPN.	US_PGPUB; USPAT; USOCR	OR	ON	2005/05/11 16:04
S58	8	({"5516720"   "5814555"   "5837618"   "5872064"   "5882968"   "5918152"   "5953625"   "6035530").PN, OR ("6232214").URPN.	US_PGPUB; USPAT; USOCR	OR	ON	2005/05/12 09:27
S59	42	({"4761699"   "4819094"   "4996623"   "5001583"   "5006946"   "5034091"   "5196377"   "5231756"   "5391842"   "5473488"   "5491597"   "5519552"   "5528819"   "5530604"   "5539596"   "5597496").PN, OR ("5737152").URPN.	US_PGPUB; USPAT; USOCR	OR	ON	2005/05/12 09:30
S60	27	({"5001583"   "5666717"   "5680274"   "5687479"   "5712749"   "5717547"   "5737152"   "5754369"   "5796552"   "5809634"   "5812344"   "5844753"   "5854724"   "5933293"   "5955176"   "5978177"   "5982584"   "5986853"   "5995329"   "6004473"   "6028748"   "6035530"   "6146813"   "6282064"   "6326301"   "6475903"   "RE37869").PN, OR ("6731467").URPN.	US_PGPUB; USPAT; USOCR	OR	ON	2005/05/12 09:37
S61	10	({"3981486"   "6034847"   "5820980"   "5048175"   "4789910"   "RE29326"   "5122916"   "5772797"   "5771568"   "5483392").PN.	US_PGPUB; USPAT; USOCR	OR	ON	2005/05/12 09:37

S62	37	(["4799118"   "5126907"   "5239435"   "5301079"   "5315468"   "5343422"   "5435053"   "5438747"   "5465185"   "5590008"   "5652687"   "5805391"   "5828533"].PN. OR ("6034847").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/05/12 09:45
S63	252	(360/322).OCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/05/12 10:21
S64	1	("6122148").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/05/12 10:21
S65	4	(["5473486"   "5986851"].PN. OR ("6122148").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/05/12 10:54
S66	19	(["4219853"   "5184393"   "5237476"   "5301077"].PN. OR ("5473486").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/05/12 10:54
S67	8	(["5270888"   "5473486"   "5781377"   "5986851"].PN. OR ("6373659").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/05/12 10:57
S68	69	(360/234.3).OCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/05/12 10:59
S69	142	(360/234.7).OCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/05/12 10:59
S70	13	("4893203"   "5083365").PN. OR ("5469312").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/05/12 11:02
S71	11	("4639803"   "4796127").PN. OR ("4893203").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/05/12 11:03
S72	13	(["4139442"   "4214946"   "4855854"   "4893203"   "5146379"   "5198934"   "5271802"   "5323283"   "5635082"   "5652687"   "5687045"   "5861103"   "5985163"].PN. OR ("6623652").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/05/12 11:06
S73	24	(["4219853"   "4317149"   "4405960"   "4759118"   "4800454"   "4809103"   "4823205"].PN. OR ("5001591").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/05/12 11:11
S74	7	(["4856181"   "4949209"   "5001591"   "5326429"   "5650897"   "5738931"   "6232563"].PN. OR ("6476485").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/05/12 11:14
S75	47	(["3813693"   "3975773"   "4149205"   "4152741"].PN. OR ("4317149").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/05/12 11:24

S76	61	("3414971"   "3846841"   "3855625"   "3908194"   "4001890"   "4130847"   "Re29326").PN. OR ("4219853").URPN.	US_PGPUB; USPAT; USOCR	OR	ON	2005/05/12 11:29
S77	2359	bull and wawick ceramic	IBM_TDB	OR	ON	2005/05/12 12:33
S78	0	bull and wawick and ceramic	IBM_TDB	OR	ON	2005/05/12 12:33
S79	0	bull and wawick	IBM_TDB	OR	ON	2005/05/12 12:33
S80	0	bull and cermic	IBM_TDB	OR	ON	2005/05/12 12:33
S81	1	bull and ceramic	IBM_TDB	OR	ON	2005/05/12 12:34
S82	0	"1972" and S69 and S61	IBM_TDB	OR	ON	2005/05/12 12:34
S83	0	wawick and ceramic	IBM_TDB	OR	ON	2005/05/12 12:34
S84	37	ceramic and slider	IBM_TDB	OR	ON	2005/05/12 12:35
S85	7306	composite head	IBM_TDB	OR	ON	2005/05/12 12:36
S86	96	composite and head	IBM_TDB	OR	ON	2005/05/12 12:36
S87	3844	alignment sliders	IBM_TDB	OR	ON	2005/05/12 12:36
S88	39	alignment and sliders	IBM_TDB	OR	ON	2005/05/12 12:36
S89	24	("4219853"   "4317149"   "4405960"   "4759118"   "4800454"   "4809103"   "4823205").PN. OR ("5001591").URPN.	US_PGPUB; USPAT; USOCR	OR	ON	2005/05/12 13:52
S90	1	("5283491").PN.	US_PGPUB; USPAT; USOCR	OR	OFF	2005/05/12 15:09
S91	1	("5048175").PN.	US_PGPUB; USPAT; USOCR	OR	OFF	2005/05/12 15:46
S92	1	10/087332	US_PGPUB; USPAT; USOCR	OR	ON	2005/05/12 15:46
S93	306	(hard adj bake or hardbake) with photoresist	US_PGPUB; USPAT; USOCR	OR	ON	2005/05/12 15:47
S94	37	"360".das. and S93	US_PGPUB; USPAT; USOCR	OR	ON	2005/05/12 16:31

S95	1	((hard adj bak\$3 or hardbak \$3) with photoresist) and (silicon adj dioxide or (Si with O)) and (mr or DOMR or mre or magneto adj resist\$5 or magnetoresist\$5 or amr or magnetic\$4 adj resist\$5 or gmr\$1 or spin adj valve\$1 or svmr\$1 or tjmr\$1 or tmj\$1 or tmr or mram or magnetic adj memory or magnetic adj random adj access adj memory or DSV or TJM or macro adj magnetoresist\$5 or macromagnetoresist\$5 or piggyback or ((composite or combination or merged) adj4 head\$1)).ti,ab,clm.	JPO; DERWENT	OR	ON	2005/05/12 16:34
S96	2	((hard adj bak\$3 or hardbak \$3) with photoresist) and (silicon adj dioxide or (Si with O))	JPO; DERWENT	OR	ON	2005/05/12 16:36
S97	369	((hard adj bak\$3 or hardbak \$3) with photoresist) and (silicon adj dioxide or (Si with O))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/05/12 16:35
S98	36	((hard adj bak\$3 or hardbak \$3) with photoresist) and (silicon adj dioxide or (Si with O)) and (mr or DOMR or mre or magneto adj resist\$5 or magnetoresist\$5 or amr or magnetic\$4 adj resist\$5 or gmr\$1 or spin adj valve\$1 or svmr\$1 or tjmr\$1 or tmj\$1 or tmr or mram or magnetic adj memory or magnetic adj random adj access adj memory or DSV or TJM or macro adj magnetoresist\$5 or macromagnetoresist\$5 or piggyback or ((composite or combination or merged) adj4 head\$1)).ti,ab,clm.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/05/12 16:43
S99	15	((hard adj bak\$3 or hardbak \$3 or cured) with photoresist) same (silicon adj dioxide or (Si with O)) same dielectric	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/05/13 09:18
S100	1	("5966800").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/05/13 09:38
S101	3	(("5966800") or ("6122148") or ("5001591")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/05/13 10:34

3/13/09 7:35:45 PM

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